

In the Drawings

FIGs. 2B, 3, 4, 5A, 5B are amended to add reference signal "W0".

REMARKS

The Examiner is thanked for the thorough examination of the present application and the indication that claims 2, 3, 6, 9, 10, and 13 contain allowable subject matter. The Office Action, however, tentatively rejected the remaining claims. In response, Applicant submits the foregoing amendments, and in view of these amendments and the following remarks, Applicant respectfully submits that the rejections should be reconsidered and withdrawn.

In response to the Office Action, independent claims 1 and 8 have been amended, and new claims 15-20 are added. Reconsideration of the application, as amended, is respectfully requested.

Rejections Under 35 U.S.C. 103

Claims 1, 4-5, 7-8, 11-12, and 14 stand rejected under 35 U.S.C. 103(a) as allegedly unpatentable over Ito (US Patent No 6456248 B2) in view of Mou et al (US Patent No 6181916 B1).

With respect to Independent claims 1 and 8:

Claim 1, as amended herein, recites:

1. A wireless communication device, comprising:
 - a shielding unit;
 - a first antenna unit transmitting a first signal between a first time and a second time; and
 - a second antenna unit separated from the first antenna unit by the shielding unit, transmitting a second signal between a third time and a fourth time, ***wherein the shielding unit is located between the first antenna unit and the second antenna unit***, and the third time or the fourth time occurs between the first time and the second time to form a

predetermined interval in which the first signal and the second signal are simultaneously transmitted.

(*Emphasis added.*) Claim 1 patently defines over the cited art for at least the reason that the cited art fails to disclose at least the features emphasized above.

Likewise, claim 8 recites:

8. A wireless communication device, comprising:
a shielding unit;
a first antenna unit transmitting a first signal;
a second antenna unit separated from the first antenna unit by the shielding unit, transmitting a second signal, wherein the first signal and the second signal are simultaneously transmitted, ***wherein the shielding unit is located between the first antenna unit and the second antenna unit***; and
a control unit electronically connected to the first antenna unit and the second antenna unit, modulating and demodulating the first signal and the second signal.

(*Emphasis added.*) Claim 8 patently defines over the cited art for at least the reason that the cited art fails to disclose at least the features emphasized above.

As emphasized above, in claim 1, a wireless communication device comprises a shielding unit, a first antenna unit and a second antenna unit. The first antenna unit transmits a first signal between a first time and a second time. The second antenna unit separated from the first antenna unit by the shielding unit transmits a second signal between a third time and a fourth time. The shielding unit is located between the first and second antenna units, and the third time or the fourth time occurs between the first time and the second time to form a predetermined interval in which the first and second signals are simultaneously transmitted.

In claim 8, a wireless communication device comprises a shielding unit, a first antenna unit, a second antenna unit and a control unit. The first antenna unit transmits a

first signal. The second antenna unit separated from the first antenna unit by the shielding unit transmits a second signal. The first and second signals are simultaneously transmitted. The shielding unit is located between the first and second antenna units. The control unit electronically connected to the first and second antenna units modulates and demodulates the first and second signals.

In contrast to the claimed features, Ito provides a single conductive planar plate (11) consisting of a rectangular left side plate portion (11A) and a rectangular right side plate portion (11B) to be disposed nearly in parallel with a top surface (2A) of the shield case (2), and a single antenna (4) is disposed outside of the shield case (2). Even though Mou discloses a communication system including a primary unit (60) and a secondary unit (70) to transmit and receive signals, the feature of Ito in view of Mou is different from that of "shielding unit is located between the first and second antenna units" of the expressly claimed embodiments.

Furthermore, Ito in view of Mou don't teach or imply that a shielding unit can be located between two antenna units or one antenna unit is separated from the other antenna unit by a shielding unit, as expressly claimed.

Thus, the feature of the structure of Ito in view of Mou is different from that of the first and second antenna units and the shielding units defined in claims 1 and 8, and the outcome and effect of the signals processed via the structure of the first and second antenna units and the shielding unit of the present application are unique from Ito in view of Mou. For at least these reasons, the rejections of claims 1 and 8 should be withdrawn.

Insofar as claims 2-7 depending from claim 1 and claims 9-14 depending from claim 8, these claims are also allowable over these cited references. Applicant therefore respectfully requests that the rejections be withdrawn.

New added claims 15-20

Additionally, in the new added claims 15-20, the structure of the wireless communication device is specifically defined. In claim 15 depending from claim 1, the first and second ground planes are formed in L-shapes and the area of the first ground plane is unequal to that of the second ground plane. In claim 16, the first and second ground planes are formed in L-shapes, and the area of the first ground plane is unequal to that of the second ground plane. In claim 17, a wireless communication device comprises a shielding unit, a first antenna unit and a second antenna unit. The shielding unit comprises an extruded portion, a first L-shaped ground plane formed on the extruded portion and a second L-shaped ground plane formed on the extruded portion. The first antenna unit transmitting a first signal between a first time and a second time is connected to the first L-shaped first ground plane. The second antenna unit separated from the first antenna unit by the shielding unit is connected to the second L-shaped ground plane, transmitting a second signal between a third time and a fourth time. The shielding unit is located between the first antenna unit and the second antenna unit, and the third time or the fourth time occurs between the first time and the second time to form a predetermined interval in which the first signal and the second signal are simultaneously transmitted. In claim 18, the first and second L-shaped ground planes are in opposite. In claim 19, the area of the first L-shaped ground plane is unequal to

that of the second L-shaped ground plane. In claim 20, the ratio of gain between the first antenna unit and the second antenna unit is a constant by adjusting the ratio of area between the first ground plane and the second ground plane.

For at least the foregoing reasons, all claims 1-20 define over the cited art.

No fee is believed to be due in connection with this amendment and response. If, however, any fee is deemed to be payable, you are hereby authorized to charge any such fee to Deposit Account No. 20-0778.

Respectfully submitted,

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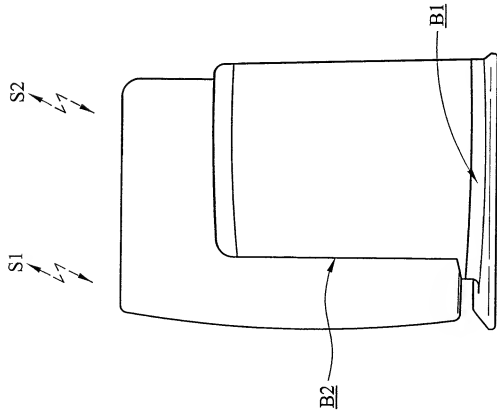


FIG. 2A

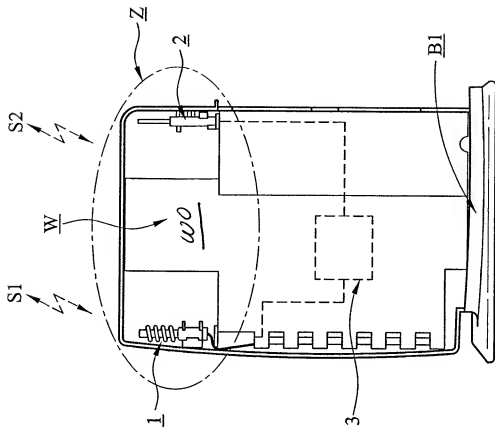


FIG. 2B

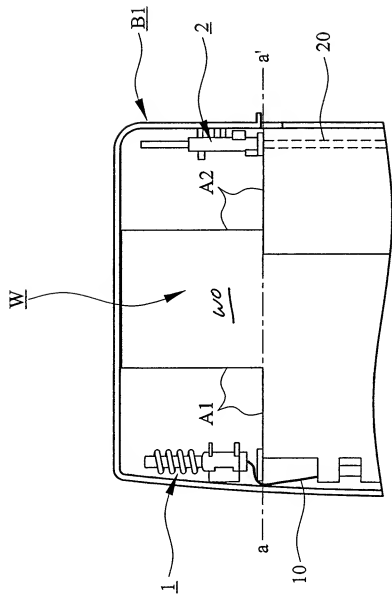


FIG. 3

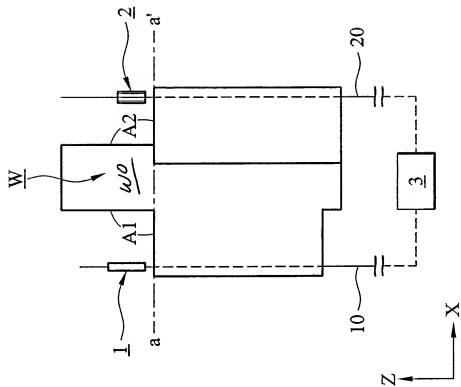


FIG. 4

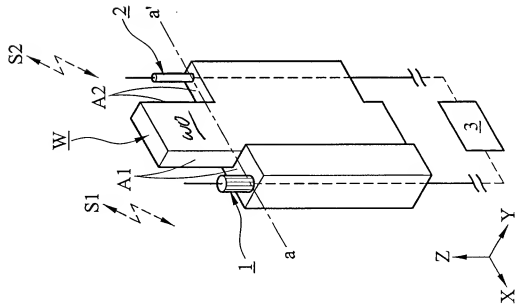


FIG. 5A

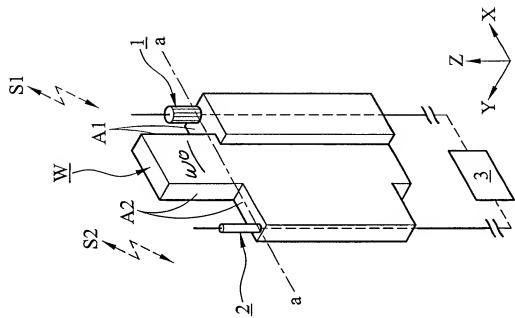


FIG. 5B